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NOTICE OF ALLOWANCE AND FEE(S) DUE

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12/08/2009

LEXMARK INTERNATIONAL, INC.
INTELLECTUAL PROPERTY LAW DEPARTMENT
740 WEST NEW CIRCLE ROAD
BLDG. 082-1
LEXINGTON, KY 40550-0999

EXAMINER

TRAN, DOUGLAS Q

ART UNIT PAPER NUMBER

2625

DATE MAILED: 12/08/2009

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/810,004	03/26/2004	Michael Donald Bender	2003-0124.02	7751	

TITLE OF INVENTION: PROCESSING PRINT JOBS FOR A RENDERING DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/08/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 21972 7590 12/08/2009 Certificate of Mailing or Transmission LEXMARK INTERNATIONAL. INC. I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. INTELLECTUAL PROPERTY LAW DEPARTMENT 740 WEST NEW CIRCLE ROAD BLDG. 082-1 (Depositor's name LEXINGTON, KY 40550-0999 (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/810.004 03/26/2004 Michael Donald Bender 2003-0124.02 7751 TITLE OF INVENTION: PROCESSING PRINT JOBS FOR A RENDERING DEVICE APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 03/08/2010 **EXAMINER** ART UNIT CLASS-SUBCLASS TRAN, DOUGLAS Q 2625 358-001900 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/810,004	03/26/2004	Michael Donald Bender	2003-0124.02	7751
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LEXMARK INTERNATIONAL, INC.			TRAN, DOUGLAS Q	
INTELLECTUAL PROPERTY LAW DEPARTMENT			ART UNIT	PAPER NUMBER
740 WEST NEW CIRCLE ROAD BLDG. 082-1			2625	
			DATE MAILED: 12/08/2009	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1000 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1000 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	10/810,004	BENDER ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Dougles O. Tron	2625		
	Douglas Q. Tran	2625		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED () or other appropriate comm (IGHTS). This application is	n this application. If not included unication will be mailed in due co	ourse. THIS	
1. This communication is responsive to <u>09/10/09</u> .				
2. X The allowed claim(s) is/are <u>1-9, 27-34, 61-69 and 102-107</u>	7 renumbered as 1-32.			
 3. Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. 	e been received. e been received in Applicati	on No	on from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requ	irements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			TICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	<u>.</u>			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			ack) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. No OLOGICAL MATERIAL.	te the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application		
2. \square Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),		
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No 7. ⊠ Examiner's	./Mail Dates Amendment/Comment		
Paper No./Mail Date <u>09/10/09</u>			onee	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8.	s Statement of Reasons for Allow	ance	
/Douglas Q. Tran/	0. <u>C. C. C</u>	_		
Primary Examiner, Art Unit 2625				

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Election/Restrictions

1. Applicant's election without traverse of Claims 1-9, 27-34 and 61-69 in the reply filed on 03/17/08. Therefore, non-elected claims 10-26, 35-60, 70, and 101 would be canceled.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended to meet a condition for allowance as follows: Cancel claims 10-26, 35-60, 70, and 101.

Allowable Subject Matter

3. Claims 1-9, 27-34, 61-69, 102-107 are allowed.

Claims 1, 27, 61 and 102 are independent claims.

The following is an examiner's statement of reasons for allowance:

As to claims 1 and 61, the present invention from the current application discloses a method and program for "determining whether the display list object includes a math or logic function requiring a hard processing operation; rendering, in a device specific page in memory, the to-be-printed object by selecting at least one of a plurality of algorithms based upon the determination; and printing the to-be-printed page using the device specific page.

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As to claim 27, the present invention from the current application discloses a method for "determining whether the band display list includes a math or logic function requiring a hard processing operation; and rendering the bands into a device specific page in memory for printing, a band containing the to-be-printed object being rendered differently from a band not containing the to-be-printed object dependent upon the determination.

As to claim 102, the present invention from the current application discloses a method for "determining whether the math or logic function for the to-be-printed object or the band display lists requires a Boolean or algebraic processing operation having two or more inputs; and rendering the to-be-printed object in a device specific page in memory on a band-by-band basis, a band containing the to-be-printed object being rendered differently than a band not containing the to-be-printed object based upon the determination; and printing the to-be-printed page using the device specific page.

However, the closest prior art such as Gauthier et al. (US Patent No. 7,532,355 B2), Nagao (U.S. Patent No. 6466229) and Ramchandran (U.S. Patent No. 5805174), which is recorded on the Examiner's Citation of Pertinent Prior Art below, either separately or in combination, fails to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2625

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Nagao (U.S. Patent No. 6466229) discloses the display list generated and stored as described above is divided into partial areas (called bands hereinbelow) obtained by dividing a page every predetermined width and stored in the display list storage unit on the band unit basis.

Ramchandran (U.S. Patent No. 5805174) discloses A display list for storing objects, along with their characteristics, locations, etc., to be printed on the page is shown having data stored in data blocks 42 of 512 bytes/block for the various zones. The memory required in display list for each zone is generally related to the complexity of the image to be printed in a particular zone. For example, if a zone is blank, then no memory in display list is utilized for that zone. Hence, the number of blocks per zone is variable. It would be understood by those skilled in the art that conventional techniques for conserving display list memory may be utilized, such as by not repeating pattern descriptions (e.g., letters) but simply identifying the locations of previous patterns and issuing a copy command.

Gauthier et al. (US Patent No. 7,532,355 B2) discloses the method of the present invention is accomplished by executing a control task in conjunction with a PDL interpreter program. The control task generates a template display list based upon the PDL commands in the PDL specification. The display list includes a plurality of rendering commands, where each rendering command designates a particular data area or object to be rendered, the graphic states to be applied to the data area and the offset address at which the rendered object.

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Schiller et al. (US Patent No. 6,049, 339) discloses a system for blending graphical objects using planar map representations is described. A page description representation of an input document's graphical objects is converted, at least in part, into a planar map representation

Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas Q. Tran whose telephone number is (571) 272-7442. The Examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Edward Coles can be reached on (571) 272-7402.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair- direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nov. 19, 2009

/Douglas Q. Tran/

Primary Examiner, Art Unit 2625